



X'TREME DUTY ONBOARD AIR SYSTEM

PART NO. 10009



IMPORTANT:

It is essential that you and any other operator of this product read and understand the contents of this manual before installing and using this product.

SAVE THIS MANUAL FOR FUTURE REFERENCE

USER MANUAL



**Only Compressor
is CE Certified*

X'TREME DUTY ONBOARD AIR SYSTEM

Thank you for purchasing this complete, self-contained onboard air system. Contained in one package, you'll find everything you'll need to install a high performance, onboard air source for your vehicle. Please follow these instructions to install your new system.

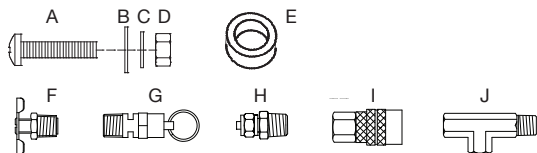
OBA Components:

- 1 - 2.0 Gallon, 6 port VIAIR Air Tank
- 2 - 350C model VIAIR compressors
- 1 - 35-ft. Length of 1/4" Air Line (for accessory and gauge installation)

*(Please check to make sure that you have **seven** labeled packages in your Onboard Air System kit. Each package contains the parts needed for specific areas of onboard air installation, and may contain smaller bags within each package labeled for specific use.)*

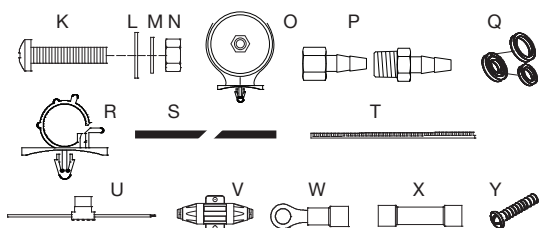
PARTS PACKAGES

Package #1 – Air Tank Installation:



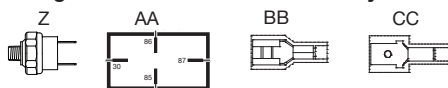
- A. Mounting Bolts (4pcs)
- B. Flat Washers (8pcs)
- C. Locking Washers (4pcs)
- D. Nuts (4pcs)
- E. Rubber Tank Mount Bushings (6pcs)
- F. 1/4" NPT Drain Cock (1pc)
- G. 1/4" NPT 175 PSI Safety Valve (1pc)
- H. 1/4" NPT Compression Fittings (4pcs)
- I. 1/4" NPT F Quick Connect Coupler (1pc)
- J. T-Fitting – (1/4" M x 1/4" F x 1/8" F NPT) (1pc)

Package #2 – Compressor Installation:



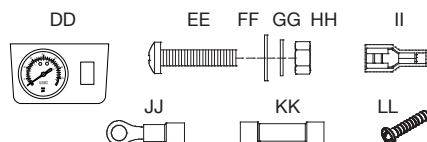
- K. Mounting Bolts (4pcs)
- L. Flat Washers (8pcs)
- M. Locking Washers (4pcs)
- N. Nuts (4pcs)
- O. Remote Mount Air Filter Assemblies (2pcs)
- P. Remote Mount Air Filter Fittings for Compressor and Air Filters (2pcs)
- Q. 2-pack of Replacement Air Filters (2pcs)
- R. Leader Hose Bracket Clips (2pcs)
- S. Air lines for Remote Mounting Air Filter (2pcs)
- T. 4-inch Strip of continuous Grommet Material (2pcs)
- U. Fuse Holder & 20 ft. 12 Gauge Wire (1pc)
- V. 60-amp Tube Style Fuse (1pc)
- W. 12-gauge Ring Terminal (1pc)
- X. 12-gauge Butt Connectors (2pcs)
- Y. Self-tapping Screws (2pcs)

Package #3 – Pressure Switch & Relays:



- Z. Pressure Switch
(110 PSI on, 145 PSI off) (1pc)
- AA. 40-amp Relays (2pcs)
- BB. Female Terminals (10pcs)
- CC. Male Spade Terminals (10pcs)

Package #4 – Gauge Panel Installation:



- DD. Dash Panel Gauge with ON/OFF Switch (1pc)
- EE. Mounting Bolts (2pcs)
- FF. Flat Washers (4pcs)
- GG. Locking Washers (2pcs)
- HH. Nuts (2pcs)
- II. Push-on Female Terminals (2pcs)
- JJ. 12-gauge Ring Terminal (1pc)
- KK. 12-gauge Butt Connector (1pc)
- LL. Self-tapping Screw (1pc)

Package #5 – Coil Hose with Couplers:

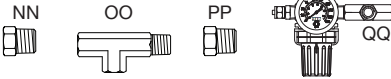


- MM. 35-ft. Coil Hose with 1/4" NPT Quick Connect Coupler and 1/4" NPT stud

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PARTS PACKAGES (CONT'D)

Package #6 – Accessories:



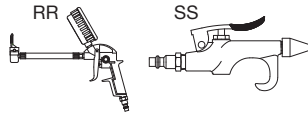
NN. 1/8" BSP F to 1/4" NPT M Adaptors
(for air locker use) (2pcs)

OO. T-Fitting (1/4" M x 1/4" F x 1/4" F NPT (1pc)

PP. 1/4" M NPT Plug (for regulator port block-off) (1pc)

QQ. 0-150 PSI Air Pressure Regulator Assembly (1pc)

Package #7 – Air Tools / Carry Bag:



RR. Inflation Gun with 0-200 PSI
Pressure Gauge with 1/4" NPT
Quick Connect Stud (1pc)

SS. Blowgun Tool (1pc)

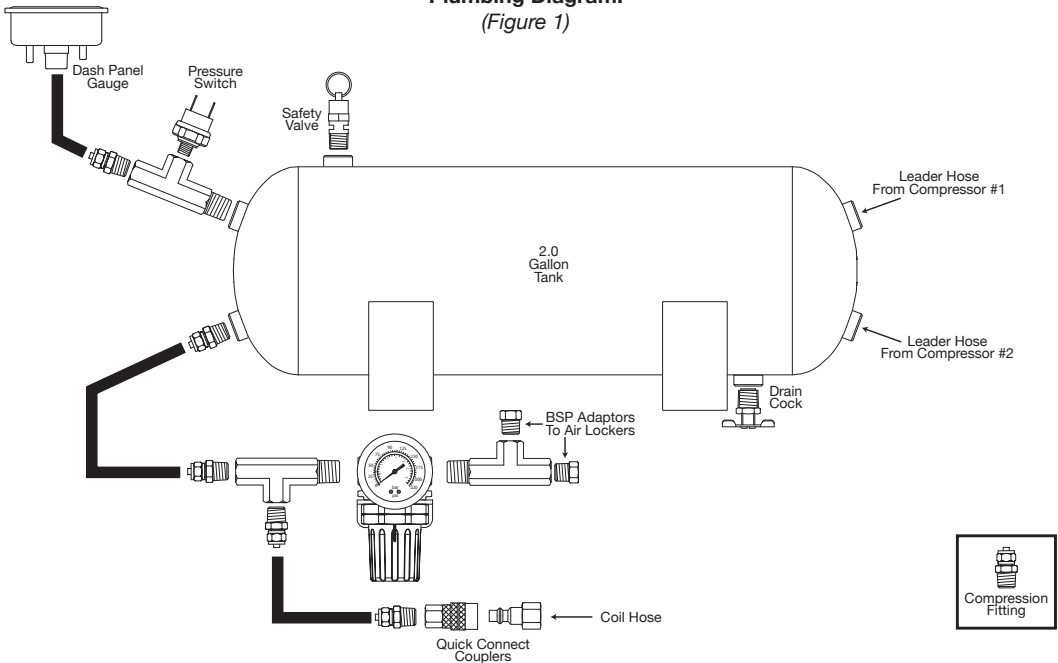
TT. Air Tool Carry Bag (1pc)

2.0 GALLON AIR TANK & PLUMBING *(USE CONTENTS OF PARTS PACKAGE #1)*

Your 2.0 Gallon air tank is shorter than most tanks on the market and has been designed for use with vehicles without much room underneath. The tank comes with six 1/4" NPT port openings to allow installation in many configurations on your vehicle. To insure safe and trouble-free use of your air tank, we strongly recommend that you install the supplied drain cock and a safety pressure relief valve. (See Figure 1)

Plumbing Diagram:

(Figure 1)



Tank Fittings:

Install the supplied fittings for the air tank in areas where they are most appropriate for your installation using thread sealant or Teflon tape. (Not all installations will be plumbed exactly as shown in schematic.) Make sure that the safety valve is installed in the top most position on the tank, and that the drain cock is installed in the lowest position on the tank if the tank is to be installed in any other position than upright on the tank's mounting legs. Be sure that all fittings are accessible later in the installation process since you will have to plumb air lines to each fitting as needed to utilize the air tank.

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2.0 GALLON AIR TANK & PLUMBING (CONT'D)

Mounting the Tank:

We have included 6 pieces of rubber bushings in your tank mounting hardware. You have the option of using two layers of rubber bushings on one of your tank lags to slightly tilt tank toward the drain cock port to improve drainage properties. Use the provided longer bolts, and corresponding washers, lock washers and nuts to mount the tank to a suitable chassis or other place on your vehicle.

IMPORTANT:

- Tank is rated for 150 PSI maximum working pressure.
- Tank is NOT to be used as a breathing device.
- Bleed pressure from tank before servicing or adding attachments.
- Use only attachments or tools rated for 150 PSI working pressure or less.

CAUTION! DO NOT PRESSURIZE YOUR TANK UNTIL YOU HAVE INSTALLED ALL NECESSARY PORT FITTINGS AND ACCESSORIES.

- Apply sealant to threads of fittings prior to assembly and tighten each part with a wrench.
- Do not over tighten if your port fittings are made from brass, since brass threads can be stripped.
- Always release air from tank before servicing.

WARNING: FAILURE TO DRAIN TANK AND REMOVE CONDENSATION WILL CAUSE TANK TO RUST PREMATURELY.

- To remove accumulated condensation inside the tank, bleed pressure from tank until pressure is approximately 5-20 PSI using drain cock
- Drain tank by opening the drain cock drain valve and close after draining tank.
- If drain cock valve is plugged, release all air pressure from tank, remove drain valve and clean, then reinstall.

IMPORTANT: Please observe air tank's Date of Manufacture (stamped on tank leg).

Replace air tank 2 to 5 years from date air tank was first used, or use the date of manufacture as reference. Adhering to air tank draining guidelines will prolong the life of your air tank.

PLEASE NOTE: RUSTED TANKS CAN FAIL CAUSING EXPLOSIONS OR FATAL INJURIES.

Discard tank immediately if tank is rusted.

SAFETY VALVE: When using a safety pressure relief valve, point the safety pressure relief valve away from your body when releasing air. Use the pull ring on the safety relief valve to vent pressure from the tank before servicing.

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DUAL 350C AIR COMPRESSOR INSTALLATION *(USE CONTENTS OF PARTS PACKAGE #2)*

Your Onboard Air System comes complete with two, 100% Duty Cycle compressors. Please follow these installation instructions to enjoy the best use of your onboard air system.

CAUTION - To reduce risk of electrical shock or electrocution:

- Do not disassemble the compressor. Do not attempt repairs or modifications. Refer to qualified service agencies for all service and repairs.
- Do not use this product in or area where it can fall or be pulled into water or liquids.
- Do not reach for this product if it has fallen into liquid.
- Use this compressor with 12-volt DC systems only.
- This product should never be left unattended during use.

Guidelines for Selecting Mounting Location:

The selection of proper mounting location for your air compressor will help ensure a long and trouble free compressor service life. Please pay close attention to the following:

- Select a FLAT, UPRIGHT & SECURE LOCATION where the compressor can be mounted.
- To maximize air compressor performance, locate compressor as CLOSE TO THE BATTERY as possible so that length of positive lead wire required is at a minimum.
- Choose mounting location that is as cool as possible and away from heat sources.
- This compressor is moisture & dust resistant, but NOT WATERPROOF or DUSTPROOF. Do not mount compressor in locations where the unit is likely to come in contact with water or excessive dirt.
- For compressor with remote filter mounting, select compressor's mounting location where air line can be routed from compressor air inlet to remote inlet air filter. Make sure that the remote inlet air filter is located in a dry location, away from water.
- You will also want to select a compressor mounting location where the leader hose bracket can be mounted to secure the 2 ft. leader hose.
- If it is necessary to mount the air compressor further from the battery, such as inside your vehicle or in the bed of your pickup, use a minimum 8 AWG positive lead wire for remote installation.
- Do not mount compressor near areas where flammable liquids are stored.
- Use thread sealant for proper fitting installation. Teflon tape is not recommended. Properly sealed, recommended torque is 12 to 15 ft. lbs

350C Compressor Wiring: (See Figure 3 on back of manual)

1. Disconnect ground cable from vehicle's battery.
2. Temporarily position the air compressor in the location where it will be mounted.
3. Route ground wire to the negative post of the battery or to an appropriate grounding point and cut ground wire to length as needed.
4. Mount the air compressors with the eight sets of 13/64" (5 mm) bolts, nuts, washers, and locking washers provided. Use of thread locker is recommended.
5. NOTE: For Remote Inlet Air Filter Installation, refer to Remote Inlet Air Filter Installation Instruction included in the Remote Inlet Air Filter Pack for installation of Remote Inlet Air Filter.
6. This air compressor comes with a heavy duty heat resistant stainless steel braided leader hose with 1/4" NPT fittings. This leader hose is designed to prolong the life of your air line. Do not remove this leader hose from air compressor.
7. IMPORTANT: Please note; the leader hose that came with your compressor has a built-in inline check valve pre-installed. Do not remove inline check valve from leader hose.
8. Select a proper location to mount leader hoses with hose brackets provided. Avoid locations where leader hose may become tangled with wires and other hoses.
9. To mount hose bracket, drill holes with 3/16" drill bit and push self-anchoring hose bracket pin into hole. Route leader hose through hose bracket and secure hose by pressing bracket clamp into locked position.
10. To remove hose from the hose bracket, simply press down on the hose clamp release tab to release bracket clamp.
11. Tie compressor's positive lead wires together and connect to pressure switch lead.
12. Make sure that your compressor setup is properly fused.
Dual 350C compressors pull approximately 40 maximum amps of power.
13. Always locate fuse as close as possible to power source.
14. Before connecting to power source, check to make sure that all connections are made properly.
15. Connect and test compressor system by running the compressor for a short time to build up pressure in your air tank.
16. Once air pressure reaches preset cut out pressure of your pressure switch, the compressor will shut off. Inspect all air line connections for leaks with soap and water solution. If a leak is detected, the air line may not be cut squarely or pushed all the way in. Tighten connections if needed.

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DUAL 350C OPERATING INSTRUCTIONS

IMPORTANT: The compressors have a maximum working pressure of 150 PSI. Always operate the compressor at or below the MAXIMUM PRESSURE RATING of the compressor. Operation exceeding maximum pressure ratings and or duty cycle will result in damage to air compressor.

1. Your air compressor is equipped with an AUTOMATIC THERMAL OVERLOAD PROTECTOR. This feature will protect the air compressor from overheating and causing permanent damage to your air compressor. The thermal overload protector will automatically cut off power to your air compressor should the internal operating temperature of the air compressor rise above safe levels during excessive use.
2. Should your air compressor automatically shut off during use, turn power to the system off. The automatic thermal overload protector will automatically reset when internal temperature of the air compressor drops below safe levels. After allowing air compressor to cool off for about 30 minutes, you can safely resume use of the air compressor by turning on the system.
3. To prevent discharge of your battery and to provide peak performance, it is recommended that you keep the engine running while the air compressor is in use.
4. ONLY OPERATE THE AIR COMPRESSOR IN WELL-VENTILATED AREAS.

Dual 350C Compressor Maintenance & Repairs:

1. Periodically check all electrical and fitting connections. Clean and tighten as needed.
2. Periodically check all mounting screws. Tighten as needed.
3. Replace air filter element periodically. Replacement frequency depends on operating frequency and operating environment. For frequent use in dusty environment, you should replace air filter element more often.
4. Regularly clean dust and dirt from compressor.
5. Your air compressor is equipped with permanently lubricated, maintenance-free motor.
Never lubricate compressor.
6. Repairs should be performed by Manufacturer or Manufacturer's Authorized Service Agencies only.

CAUTION: Never touch the air compressor or fittings connected to the air compressor with bare hands during or immediately after use. Leader hose and fittings will become very HOT during and after use.

Dual 350C Compressor Installation Tips:

1. Always use the remote intake filter option when possible. This will extend the service life of your compressor.
2. If noise reduction from vibration is desired, using the remote mount option for the inlet filter can reduce operation noise by up to 25%.
3. Always mount the compressor at a point higher than the inlet port of the tank.
This will keep moisture from being able to seep back to the tank.
4. When mounting the compressor, use a paint pen on the rubber isolators and cover the side to go against the chassis or mounting location. Then, simply stamp the compressor against the chassis to make an imprint of exactly where to drill the mounting holes for the compressor.

PRESSURE SWITCH INSTALLATION *(USE CONTENTS OF PARTS PACKAGE #3)*

Your VIAIR Onboard Air System comes complete with a heavy duty pressure switch that will turn on the compressor at 110 PSI, and off at 145 PSI. The pressure switch has a 1/8" NPT inlet at the bottom that will fit directly into the provided T-fitting in the kit (using thread sealant) to allow it to be plumbed into your air tank.

Pressure Switch with Relay Installation Tips:

1. Both terminals of the pressure switch are positive (+) leads. One is connected to the compressor positive lead wire and the other to switched, fused power. Use of a relay is always recommended.
2. Never install your pressure switch in direct line from the inlet port coming from the compressor.
Tank pressure could be misread by the pressure switch. Instead, mount the pressure switch on the tank where it receives air pressure reading from deflected air in the tank.
2. Never use a pressure switch that is rated beyond your compressor's rated Maximum Working Pressure (150 PSI).
3. Replace with Pressure Switch with Relay P/N 90217 if the pressure switch becomes faulty or fails in the future.

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DASH PANEL GAUGE INSTALLATION *(USE CONTENTS OF PARTS PACKAGE #4)*

Your VIAIR Onboard Air System comes complete with a Dash Panel Gauge to monitor the pressure of your 2.0 gallon VIAIR air tank. Additionally, the Dash Panel Gauge has an ON/OFF switch preinstalled that will allow you to turn the system off by cutting power to the pressure switch with relay that you have already installed. We recommend that you install a master ON/OFF switch to allow the system to be turned off any time you anticipate leaving the vehicle parked for any length of time, and to avoid draining the vehicle's battery unnecessarily due to a slow air leak in your system. *(See Figure 3 on back of manual)*

IMPORTANT: Each Dash Panel Gauge has been tested and calibrated. The air inlet on this gauge has a factory installed compression fitting. DO NOT attempt to tighten or loosen the body of this compression fitting. Any adjustments will cause the gauge to malfunction and void warranty. The Dash Panel Gauge included in this kit is rated for 150 PSI. Do not pressurize gauge over 150 PSI.

1. Select Mounting Location for Dash Panel Gauge:

Select a mounting location with a rigid mounting surface such as the bottom edge of the dashboard. Use the gauge mounting panel as a template; mark off two mounting points to be drilled. Carefully drill two 13/64" diameter holes as marked. Do not mount Dash Panel Gauge at this time.

2. Air Line Connection to Dash Panel Gauge:

Remove only the collar of the compression fitting from the back of the Dash Panel Gauge. Do not loosen or tighten the body of the compression fitting, which is permanently affixed to the air inlet of the gauge. Insert air line tubing through this collar, and then push air line tubing onto the barb of the compression fitting until the air line completely covers the barb. Tighten collar onto the body of the compression fitting with a wrench.

3. Routing Air Line to Air Source:

Route the air line tubing on the Dash Panel Gauge to the air source. Do not cut air line yet. In some cases a hole may need to be drilled to enable the air line to pass through to the air source. Make sure that the air line tubing is protected from any sharp edges of the drilled hole using grommet strip supplied. Connect to the tank using the 1/4" compression fitting supplied.

Installation Tips:

- When cutting air line tubing, always cut as squarely as possible. Use a hose cutter or razor blade.
- When routing air line tubing, always remember to avoid sharp edges, heat sources and tight bends. (Air line must be routed at least 12 inches from exhaust systems & other heat sources.)

IMPORTANT - Drilling through firewall:

Always be sure of what is on the other side of the firewall before drilling. Take care not to damage your vehicle's electronic systems or components.

4. Wiring the ON/OFF Switch:

Attach one of the two remaining female terminal connectors to the wire that was routed from the pressure switch trigger wire (Small Red Wire on pressure switch with relay) There are two male spade connectors on the back of the ON/OFF switch. Connect this female terminal connector to one of the male spade connector on the ON/OFF switch. Next, attach appropriate size ring terminal provided in the kit to the end of the wire with the Inline Fuse. (The ring terminal should be about 12" from the inline fuse.) This wire is referred to as the power wire. Temporarily position the ring terminal at the power source and route power wire to the dash panel gauge, measure and cut to appropriate length. (If additional wire is necessary, use 16 AWG wire.) Attach the remaining female terminal connector to end of power wire, and connect to male spade connector on the ON/OFF switch. (Note: Do not connect gauge to power source at this time.)

5. Wiring the Dash Panel Gauge for Illumination:

There are two wires, one red and one black connected to the light bulb of the gauge. Connect the red wire to a suitable fused dash panel circuit. Use the quick splice connector included in the kit for wire connections. The black wire is to be connected to a suitable ground source.

6. Mounting the Dash Panel Gauge:

With all electrical and air line tubing routed and connected properly, mount the dash panel gauge using the two 13/64" nuts, bolts, and washers included with the Dash Panel Gauge. Make sure that no electrical wires or air line can be contacted by vehicle pedal operation, or by use of any safety equipment. Use provided zip ties to secure air line and electrical wiring.

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DASH PANEL GAUGE INSTALLATION (CONT'D)

7. Connect to Power Source:

Before connecting the power wire to a power source, check to make sure that the ON/OFF switch on the dash panel gauge is in the OFF position. Connect the ring terminal of the power wire to power source. (This is the wire described in Step 4, which is connected to the ON/OFF switch of the dash panel gauge.)

8. Testing Your Onboard Air System:

Your Onboard Air System installation is now complete. Run the compressor to build pressure in the air tank. When air pressure reaches the pressure switch cut out pressure, the compressor will shut off. Inspect all air line connections for leaks with soap and water solution and spray with a spray bottle onto connections to check for leaks. If leaks are detected, push air line may not be cut squarely or pushed all the way in. Fix connections as needed. Periodically check your system's fitting in this manner should your compressor turn on more often than normal without frequent air use.

INLINE PRESSURE REGULATOR INSTALLATION (USE CONTENTS OF PARTS PACKAGE #6)

Your Onboard Air System comes complete with an adjustable inline air pressure regulator that may be used to regulate the pressure in your air tank down to any pressure below 150 PSI. This is especially useful for installations that will supply air to a locking differential, or may be used to operate air tools. Never attempt to use the regulator to adjust any tank pressure over 150 PSI, since the component is only rated to a maximum of 150 PSI.

1. Mounting the Inline Pressure Regulator:

Select a mounting location with a rigid mounting surface such as the bottom edge of a chassis. Use the inline pressure regulator mounting bracket as a template to mark the two mounting points to be drilled. Carefully drill the two holes as marked, but do not mount the Pressure Regulator at this time.

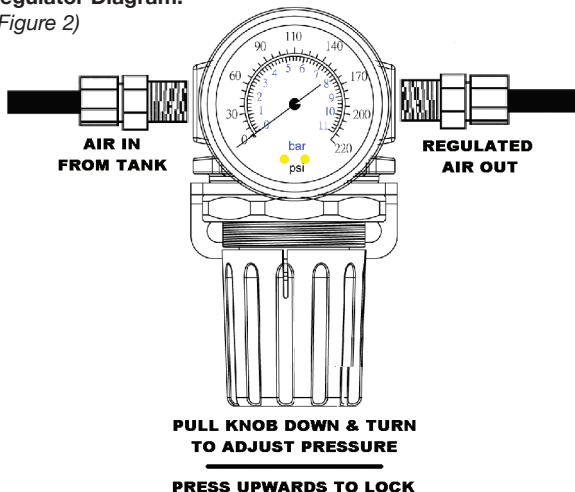
2. Air Line Connections to Inline Pressure Regulator:

Use a 1/4" NPT compression fitting on the "IN" side of the regulator receiving air from the air tank. On the "OUT" side of the regulator, you may install a 1/4" NPT quick connect coupler, or use another 1/4" NPT compression fitting to route the air line to the source of the item that pressure is being regulated to. If you are plumbing to air locking differentials, we have included two 1/8" BSP Female to 1/4" NPT Male Adapters for this use. You may require a T-fitting (not included), depending on your application.

3. Adjusting pressure 0-150 PSI:

The pressure regulator knob locks when pushed towards the unit. To adjust pressure, simple pull knob away from the regulator body and adjust as needed. Always lock the adjustment knob in place before using pressure-adjusted air supply to keep pressure regulated at a fixed pressure. (See Figure 2)

Pressure Regulator Diagram:
(Figure 2)



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TIRE INFLATION GUN OPERATING INSTRUCTIONS *(USE CONTENTS OF PARTS PACKAGE #7)*

Your Onboard Air System also comes with a Tire Inflation gun for airing up tires, and adding compressed air to any inflatable item with a valve stem. The Tire Inflation Gun has a normally closed lever style air chuck at the end of its rubber hose. After connection to an air source such as an air tank via the quick connect stud preinstalled in the unit, air may be discharged from the gun by simply squeezing the inflation trigger. To check air pressure, simply release the trigger and check the onboard air pressure gauge.

1. Using the Tire Inflation Gun:

Using a 1/4" Quick Coupler, connect the Tire Inflation Gun to an air hose and connect to a tire valve stem or similar inflation collar by securing the folding lever on the Inflation Gun air chuck.

2. Filling Tires and other Inflatable Items:

Squeeze the Inflation Trigger on the Inflation Gun by pressing it towards the handle of the gun. This will allow stored air from the air tank to flow through the gun and through the chuck into your tire or other inflatable.

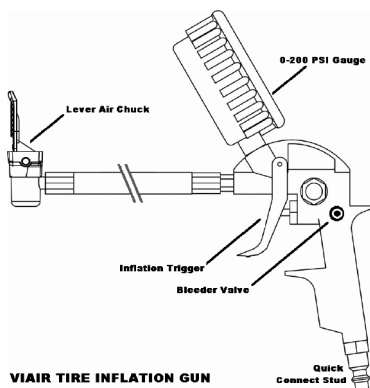
3. Checking Tire Pressure:

To check tire pressure, release Inflation Trigger on Inflation Gun and allow the needle of the 0-200 PSI gauge to settle. Tire pressure will be able to be read only when the inflation trigger is released.

WARNING:

- Never operate the Inflation Gun at any pressure exceeding 150 PSI.
- Use caution when attached or removing air chuck from valve stems.
- Always ensure that tire valve stems are tight before inflating tires.
- Be careful to never inflate any tire or other inflatable past its rated pressure to avoid explosion, or possible injury or death.

Please Note: Not intended for use with regular portable compressors or units meant to be operated with an open ended air chuck. The Tire Inflation Gun is equipped with a close ended chuck and will hold pressure back, which could cause the hose to burst.



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TROUBLESHOOTING GUIDE:

PROBLEM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Tank pressure drops when compressor (s) shut off	<ol style="list-style-type: none">1. Loose drain cock2. Check valve leaking3. Loose connections	<ol style="list-style-type: none">1. Tighten drain cock2. Replace check valve or compressor(s)3. Check all connections with soap and water solution and tighten
Compressor runs continuously and air flow lower than normal	<ol style="list-style-type: none">1. Excessive air usage2. Loose connections3. Worn piston ring or inlet valve.4. Clogged air filter element	<ol style="list-style-type: none">1. Decrease air usage2. Check all connections with soap and water solution and tighten.3. Repair or replace compressor4. Replace air filter element
Compressor runs continuously causing safety valve (if equipped) to open	<ol style="list-style-type: none">1. Bad pressure switch2. Defective safety valve	<ol style="list-style-type: none">1. Replace pressure switch2. Replace safety valve
Excessive moisture in discharge	<ol style="list-style-type: none">1. Excessive water in air tank2. High humidity	<ol style="list-style-type: none">1. Drain tank, tilt tank to drain. Drain tank more frequently2. Move compressor to area with less humidity, or use air line filter.
Compressor will not run	<ol style="list-style-type: none">1. No power, or power switch in OFF position2. Blown fuse3. Motor overheats4. Faulty pressure switch.	<ol style="list-style-type: none">1. Make sure compressor switch is ON2. Disconnect compressors from power source, replace fuse. (Refer to Specifications section for correct fuse amperage.)3. Let compressors cool off for about 30 Minutes to allow thermal overload switch reset.4. Replace pressure switch
Thermal overload protector cuts out repeatedly	<ol style="list-style-type: none">1. Lack of proper ventilation or ambient temperature too high2. Compressor valves failed	<ol style="list-style-type: none">1. Move compressor to well ventilated area, or area with lower ambient temperature2. Repair or replace compressor
Excessive knocking or rattling	<ol style="list-style-type: none">1. Loose mounting bolts2. Worn bearing on eccentric or motor shaft3. Cylinder or piston ring is worn	<ol style="list-style-type: none">1. Tighten mounting bolts2. Repair or replace compressor3. Repair or replace compressor

CAUTION: NEVER DISASSEMBLE COMPRESSOR WHILE COMPRESSOR IS PRESSURIZED.

X'TREME DUTY ONBOARD AIR SYSTEM

COMPRESSOR APPLICATION GUIDE

To ensure that you get the highest level of satisfaction from your compressor performance, refer to information below:

VIAIR COMPRESSOR REFERENCE CHART

COMPRESSOR SERIES	DUTY CYCLE	WORKING PRESSURE
100 SERIES	15%	130 PSI
215 SERIES	17%	150 PSI
225 SERIES	20%	150 PSI
265 SERIES	22%	150 PSI
275 SERIES	25%	150 PSI
300 SERIES	30%	150 PSI
400 SERIES	33%	150 PSI
450 SERIES	100%	150 PSI
500 SERIES	33%	150 PSI
550 SERIES	100%	150 PSI

ABOUT COMPRESSOR DUTY CYCLE:

Compressor Duty Cycle refers to amount of time a compressor can be operated in a given time period, at 100 PSI & at a standard ambient temperature of 72°F.

Duty Cycle is commonly expressed as:

Compressor On Time / (Compressor On Time + Off Time)

As an example, a compressor that is rated for 20% duty cycle means that compressor can be operated at 100 PSI @ 72°F for 8 Minutes and rested for 32 Minutes.

8 min. on / (8 min. on + 32 min. off) = 20% Duty Cycle

DUTY CYCLE REFERENCE CHART

DUTY CYCLE @100PSI / 72°F	MINUTES ON / OFF
15%	6 Min. On / 34 Min. Off
17%	7 Min. On / 30 Min. Off
20%	8 Min. On / 32 Min. Off
22%	9 Min. On / 30 Min. Off
25%	10 Min. On / 30 Min. Off
30%	13 Min. On / 30 Min. Off
33%	15 Min. On / 30 Min. Off
100%	Continuous Duty

ABOUT RATED WORKING PRESSURE:

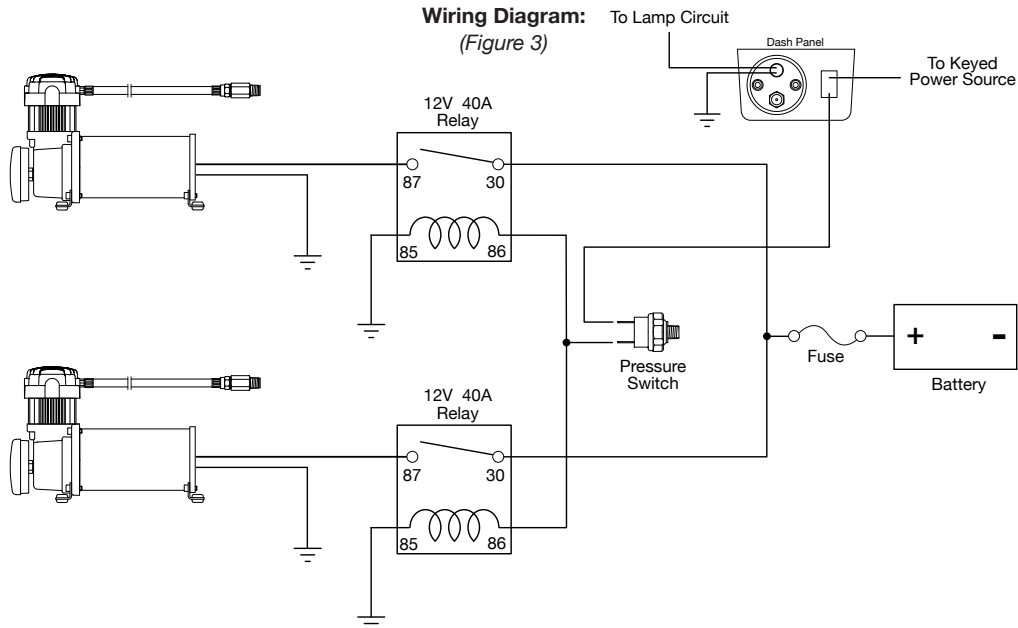
To ensure trouble free service life of your compressor, always operate compressor within rated working pressure of the compressor. Never use a pressure switch with a higher cut-off pressure than compressor's rated working pressure.

X'TREME DUTY ONBOARD AIR SYSTEM

WIRE GAUGE GUIDE 12-VOLT:

Amp Draw	Length of wire from battery to compressor				
	10	15	20	25	30
10	14	12	10	10	10
15	12	10	10	8	8
20	10	10	8	6	6
25	10	8	6	6	6
30	10	8	6	6	4
40	8	6	6	4	4
50	6	6	4	4	2
60	6	4	4	2	2

Wiring Diagram:
(Figure 3)



LIMITED WARRANTY:

VIAIR Corporation warrants this product, when properly installed and under normal conditions of use, to be free from defects in workmanship and materials for a period of one year from its original date of purchase. To receive warranty service or repair, please contact VIAIR Corporation.

Returns should be made within one year of the date of purchase, after a Return Goods Authorization (RGA) number has been assigned by VIAIR Corporation. To obtain RGA, fax a copy of your receipt to (949) 585-0188. For complete warranty details, please visit: www.viaircorp.com/warranty

PLEASE NOTE:

THIS WARRANTY COVERS PRODUCT DEFECTS ONLY; IT DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES AS RESULT OF MISUSE OR ABUSE.



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